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Improving the Clinical Evidence of Bone Graft Substitute Technology in Lumbar Spine Surgery

Bone graft substitutes have been used routinely for spine fusion for decades, yet clinical evidence establishing comparative data remains sparse. With recent scrutiny paid to the outcomes, complications, and costs associated with osteobiologics, a need to improve available data guiding efficacious use exists. We review the currently available clinical literature, studying the outcomes of various biologics in posterolateral lumbar spine fusion, and establish the need for a multicenter, independent osteobiologics registry.

改善在腰椎手術中骨移植替代物技術的臨床證據

骨移植替代物已經常性被用於脊柱融合手術已十多年了，還仍然沒有足夠的臨床證據建立比較數據。隨著最近對結果，並發症和與骨生物製品(osteobiologics)相關的成本的詳細覆查，確實有需要改善現有的數據資料以指引更有效地使用相關製品。我們回顧了目前可用的臨床文獻，研究各種生物製品在腰椎後外側融合的結果，和建立一個多中心，獨立骨生物製品(osteobiologics)註冊的需要。